

INTERNATIONAL SEARCH REPORT

Intern Application No
PCT/EP 03/50792

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 E21B33/138 E21B43/16 E21B43/25 E21B43/26

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B C04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 291 949 A (DOVAN HOAI T ET AL) 8 March 1994 (1994-03-08) cited in the application	1,8
Y	column 10, line 7-28 ---	6,11
X	US 4 147 211 A (SANDIFORD BURTON B) 3 April 1979 (1979-04-03) column 7, line 28-56; figure 1 column 11, line 29 -column 12, line 3 ---	1-5,7-10
X	US 4 903 767 A (SHU PAUL ET AL) 27 February 1990 (1990-02-27) column 1, line 23 -column 2, line 10 column 4, line 44-49; claims 1-33 --- -/--	1-3,7,8

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

11 March 2004

Date of mailing of the international search report

23/03/2004

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A	US 3 958 638 A (JOHNSTON CHESTER C) 25 May 1976 (1976-05-25) column 2, line 13-25 column 4, line 27-53 ---	4-6,9-11
A	US 3 349 844 A (MORSE JOE V ET AL) 31 October 1967 (1967-10-31) figures 1-4 ---	1,2,6,7
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A	US 3 658 131 A (BILES JERRY W) 25 April 1972 (1972-04-25) column 1, line 12-32 column 2, line 15-38 column 3, line 3-10 column 3, line 29-36 column 3, line 36,37 column 3, line 41 -column 4, line 50 ---	1-4,6-9
A	US 3 881 552 A (HESSERT JAMES E) 6 May 1975 (1975-05-06) abstract ---	1-10
A	US 4 299 284 A (BROWN ALFRED ET AL) 10 November 1981 (1981-11-10) column 9, line 48 -column 10, line 29 ---	1
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